

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer readable~~recording~~ medium having a data structure for managing reproduction of multiple playback path video data of a title, comprising:

a playlist directory area storing a playlist directory including a plurality of playlist files, each playlist file identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths;~~and~~

at least one navigation information area storing navigation information at least providing information on one playback path;

a data area storing at least one clip file of the multiple playback path video data; and

a management area storing management information for managing reproduction of the multiple playback path video data, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file.

2. (Currently Amended) The computer readable~~recording~~ medium of claim[[s]] 1, wherein a group of playlist files is associated with each playback path.

3. (Currently Amended) The computer readable~~recording~~ medium of claim 2, wherein the navigation information at least provides information linking one playlist file to another playlist file in the same playback path.

4. (Currently Amended) The computer readable~~recording~~ medium of claim 3, wherein the

different playback paths of the title are different stories of the title.

5. (Currently Amended) The computer readable~~recording~~ medium of claim 2, wherein the navigation information indicates a next playlist file to playback after a particular playlist file is played back.

6. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein the navigation information at least provides information linking one playlist file to another playlist file in the same playback path.

7. (Currently Amended) The computer readable~~recording~~ medium of claim 6, wherein the different playback paths of the title are different stories of the title.

8. (Currently Amended) The computer readable~~recording~~ medium of claim 1, wherein the navigation information indicates a next playlist file to playback after a particular playlist file is played back.

9. (Currently Amended) The computer readable~~recording~~ medium of claim 1, ~~further comprising: wherein~~

~~a data area storing clips of the multiple playback path video data, and the data area stores a~~
plurality of clip files of the multiple playback path video data, and
the video data for each playback path ~~is~~being stored in a different clip file.

10. (Currently Amended) A computer readable~~recording~~ medium having a data structure for

managing reproduction of multiple playback path video data, comprising:

a playlist directory area storing a playlist directory including a plurality of playlists, at least a number of the playlists divided into groups and each group associated with a different playback path;

a data area storing at least one clip file of the multiple playback path video data; and

a management area storing management information for managing reproduction of the multiple playback path video data, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file.

11. (Currently Amended) The computer readable~~recording~~ medium of claim 10, further comprising:

at least one navigation information area storing navigation information at least providing information on one playback path.

12. (Currently Amended) The computer readable~~recording~~ medium of claim 11, wherein the navigation information at least provides information linking one playlist file to another playlist file in the same playback path.

13. (Currently Amended) The computer readable~~recording~~ medium of claim 12, wherein the different playback paths of the title are different stories of the title.

14. (Currently Amended) The computer readable~~recording~~ medium of claim 11, wherein the

navigation information indicates a next playlist file to playback after a particular playlist file is played back.

15. (Currently Amended) The computer readable~~recording~~ medium of claim 10, ~~further comprising: wherein~~

~~a data area storing clips of the multiple playback path video data, and the data area stores a plurality of clip files of the multiple playback path video data, and~~
the video data for each playback path ~~is being~~ stored in a different clip file.

16. (Currently Amended) A method of reproducing multiple playback path video data from a recording medium, comprising:

receiving user input selecting one of the playback paths;

reproducing at least one playlist associated with the selected playback path based on navigation information recorded on the recording medium;

reproducing at least one clip file of the multiple playback path video data from the recording medium; and

reproducing management information for managing reproduction of the multiple playback path video data from a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file.

17. (Original) The method of claim 16, wherein the reproducing step reproduces a group of playlists based on the navigation information.

18. (Currently Amended) A method of recording a data structure for managing reproduction of at least video data on a recording medium, comprising:

recording a playlist directory including a plurality of playlist files in a playlist directory area of the recording medium, each playlist file identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths; and

recording navigation information in at least one navigation information area of the recording medium, the navigation information at least providing information on one playback path;

recording at least one clip file of the at least video data in a data area of the recording medium; and

recording management information for managing reproduction of the at least video data in a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file.

19. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least video data, comprising:

reproducing navigation information from at least one navigation information area of the recording medium, the navigation information at least providing information on one playback path; and

reproducing at least one playlist file in a playlist directory area of the recording medium based on the navigation information, each playlist file identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths

reproducing at least one clip file of the at least video data from the recording medium; and
reproducing management information for managing reproduction of the at least video data
from a management area of the recording medium, the management information including an
information file associated with each clip file, each information file providing a map for the
associated clip file, each map containing presentation time information corresponding to address
information for the associated clip file.

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least video data, comprising:

~~a driver for driving~~ an optical recording device configured to record data on a recording medium;

an encoder for encoding at least video data; and

a controller configured to control~~for controlling the driver~~ the optical recording device to record at least one clip file of the encoded video data in a data area on the recording medium, the controller configured to control~~for controlling the driver~~ the optical recording device to record a playlist directory including a plurality of playlist files in a playlist directory area of the recording medium, each playlist file identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths, the controller configured to control the optical recording device to record management information for managing reproduction of the encoded video data in a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file,
and

the controller configured to control~~controlling the driver~~ the optical recording device to record navigation information in at least one navigation information area of the recording medium, the navigation information at least providing information on one playback path.

21. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least video data, comprising:

~~a driver for driving~~ an optical reproducing device configured to reproduce data recorded on a recording medium; and

a controller configured to control~~for controlling the driver~~ the optical reproducing device to reproduce navigation information from at least one navigation information area of the recording medium, the navigation information at least providing information on one playback path;~~and~~

the controller configured to control the optical reproducing device to reproduce at least one clip file of the at least video data from a data area of the recording medium;

the controller configured to control~~controlling the driver~~ the optical reproducing device to reproduce at least one playlist file in a playlist directory area of the recording medium based on the navigation information, each playlist file identifying a portion of the multiple playback path video data and at least a portion of the playlist files associated with different playback paths, and

the controller configured to control the optical reproducing device to reproduce management information for managing reproduction of the at least video data from a management area of the recording medium, the management information including an information file associated with each clip file, each information file providing a map for the associated clip file, each map containing presentation time information corresponding to address information for the associated clip file.

22. (New) The computer readable medium of claim 1, wherein

the multiple playback path video data are represented by packets; and
each map maps presentation time stamps to packet addresses.

23. (New) The apparatus of claim 20, wherein a group of playlist files is associated with each playback path.

24. (New) The apparatus of claim 23, wherein the navigation information at least provides information linking one playlist file to another playlist file in the same playback path.

25. (New) The apparatus of claim 21, wherein a group of playlist files is associated with each playback path.

26. (New) The apparatus of claim 25, wherein the navigation information at least provides information linking one playlist file to another playlist file in the same playback path.